

Claims

1. A hip joint prosthesis having an inner sliding cup (1) made of ceramic material that is surrounded on its outside by a plastics covering (2), for insertion into an outer metal cup (6) or for direct implantation with the aid of bone cement, with a ball head that is arranged on a shaft, which can be anchored in the femur, articulating in the inner sliding cup (1), characterised in that the sliding cup (1) has a structuring on its outside.
2. A hip joint prosthesis according to claim 1, characterised in that the structuring is provided with large radii in the notch base.
3. A hip joint prosthesis according to claim 2, characterised in that the notch radius at the notch base amounts to more than 0.5 mm.
4. A hip joint prosthesis according to one of claims 1 to 3, characterised in that the structuring consists of depressions (8) that are undulating in section.
5. A hip joint prosthesis according to claim 4, characterised in that the depressions (8) that are undulating in section are circumferentially arranged on the outside of the sliding cup (1).
6. A hip joint prosthesis according to one of claims 1 to 3, characterised in that the structuring consists of semicircular depressions (9).
7. A hip joint prosthesis according to one of claims 1 to 6, characterised in that the sliding cup (1) has on its outside a spherical or stepped structural form.

8. A hip joint prosthesis according to one of claims 1 to 7, characterised in that the plastics covering (2) embraces the sliding cup (1) at its open end.

5 9. A hip joint prosthesis according to claim 8, characterised in that the collar (5) of the plastics covering (2) that rests on the upper side of the sliding cup (1) covers almost half of the upper edge.

10 10. A hip joint prosthesis according to one of claims 1 to 9, characterised in that the sliding cup (1) is connected to the plastics covering (2) by being pressed into the plastics covering (2).

15 11. A hip joint prosthesis according to one of claims 1 to 10, characterised in that the inner form (10) of the sliding cup (1) is arranged eccentrically in relation to the outer form (11) of the sliding cup (1).

20 12. A hip joint prosthesis according to claim 11, characterised in that the variation with respect to the coaxiality (eccentricity) amounts to at least 0.001 mm.